

CLAIMS

What is claimed is:

1. A color filter substrate comprising:
a substrate;
a first colored layer disposed in a first region of the substrate; and
a second colored layer disposed in a second region of the substrate;
wherein the first colored layer and the second colored layer are disposed adjacent to each other;
a surface of the second region is higher than a surface of the first region, and a step difference plane is provided between the first region and the second region; and
an interface portion between the first colored layer and the second colored layer is disposed in a region toward the second region from the bottom portion of the step difference plane.
2. A color filter substrate according to Claim 1,
wherein a protrusion is provided on a surface of the interface portion by overlapping the first colored layer and the second colored layer, and the protrusion is disposed in a region toward the second region from the bottom portion of the step difference plane.
3. A color filter substrate according to Claim 1,
wherein the step difference plane is inclined, and at least a portion of the interface portion is disposed in a region overlapping the step difference plane in plan view.

4. A color filter substrate according to Claim 1,
further comprising a light transmission portion which enables light to be transmitted is provided in the first region, and a light reflection portion where a light reflection layer is disposed is provided in the second region.

5. A color filter substrate according to Claim 4,
wherein the light reflection portion includes the interface portion.

6. A color filter substrate according to Claim 1,
further comprising an electrode integrally formed on a surface extending from the first region via the step difference plane to the second region.

7. A method of manufacturing a color filter substrate comprising:
a first coloring step of disposing a first colored layer in a first region;
a second coloring step of disposing a second colored layer in a second region; and

a step difference forming step of forming a step difference where a surface of the second region is formed to be higher than a surface of the first region via a step difference plane between the first region and the second region;

wherein, in the step difference forming step, the bottom portion of the step difference plane is formed in a region toward the first colored layer from the interface portion between the first colored layer and the second colored layer.

8. A method of manufacturing a color filter substrate according to Claim

7,

wherein, in the first and second coloring steps, the first colored layer and the second colored layer are formed to overlap each other on the interface portion.

9. A method of manufacturing a color filter substrate according to Claim 7, wherein, in the step difference forming step, the step difference plane is formed as an inclined plane in a region overlapping at least a portion of the interface portion in plan view.

10. A method of manufacturing a color filter substrate according to Claim 7,

further comprising a step of forming a light reflection layer, wherein the light reflection layer has an opening in the first region,

wherein the light reflection layer is formed to cover the interface portion in plan view.

11. An electro-optical device comprising:
an electro-optical material;
an electric field applying means for applying an electric field to the electro-optical material; and
a color filter substrate according to Claim 1.

12. An electro-optical device according to Claim 11,
wherein the electro-optical material is a liquid crystal, and a liquid crystal layer in the first region is configured to be thicker than a liquid crystal layer in the

second region, corresponding to the height difference between the first region and the second region in the color filter substrate.

13. A method of manufacturing an electro-optical device comprising:
a first coloring step of disposing a first colored layer in a first region on a substrate to be arranged along an electro-optical material;
a second coloring step of disposing a second colored layer in a second region on a substrate to be arranged along an electro-optical material; and
a step difference forming step forming a step difference where a surface of the second region is formed to be higher than a surface of the first region via a step difference plane between the first region and the second region;
wherein, in the step difference forming step, the bottom portion of the step difference plane is formed in a region toward the first colored layer from the interface portion between the first colored layer and the second colored layer.

14. A method of manufacturing an electro-optical device according to Claim 13,
wherein, in the first and second coloring steps, the first colored layer and the second colored layer are formed to overlap each other in the interface portion.

15. An electronic apparatus comprising an electro-optical device according to Claim 11, and control means for controlling the electric field applying means of the electro-optical device.